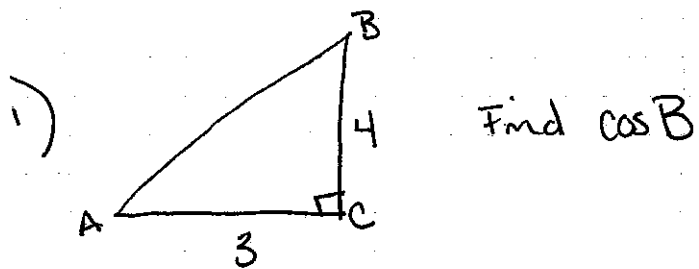
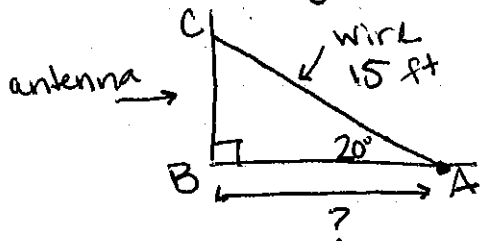


Trig (RTT) Test Prep



- 2) The angle of elevation from a point 35 ft from the base of a tree on level ground to the top of the tree is 40° . Write an equation that can be used to find the height of the tree.

- 3) A 15-ft wire attached to an antenna makes a 20° angle with the level ground, as shown below.
- What is the approximate distance from the base of the antenna to the place where the wire is staked to the ground?



- 4)
-
- Write an equation and solve it for x .

5) Given that $\sin A = \frac{\sqrt{5}}{3}$ and $\cos A = -\frac{2}{3}$,

which of the following trig ratios is NOT correct?

A. $\sec A = \frac{3}{2}$

C. $\cot A = -\frac{2\sqrt{5}}{5}$

B. $\tan A = -\frac{\sqrt{5}}{2}$

D. $\csc A = \frac{3\sqrt{5}}{5}$

6) From an airplane at an altitude (height) of 1200 m, the angle of depression to a rock on the ground measures 28° . Find the distance from the plane to the rock.

7) From a point on the ground 12 ft from the base of a flagpole, the angle of elevation of the top of the pole measures 53° . How tall is the flagpole?

8) Brian's kite is flying above a field at the end of 65 m of string. If the angle of elevation to the kite measures 70° , and Brian is holding the kite 1.2 m off the ground. How high above the ground is the kite flying?